

Chapter 11 & 12 Study Guide: Motion & Forces

Chapter 11: Motion

1. Define (include the formula and circle diagram for calculating speed, velocity, and acceleration):
 - a. Distance: The length between two objects or the length of the path traveled.
 - b. Speed: distance traveled by the time it took to travel. $\text{Speed} = \text{distance} / \text{time}$
 - c. Velocity: distance traveled by the time it took to travel and the direction that you travelled in. $\text{velocity} = \text{distance} / \text{time}$
 - d. Acceleration: change in velocity or velocity over time. $\text{acceleration} = \frac{\text{velocity}_{\text{final}} - \text{velocity}_{\text{initial}}}{\text{time}}$
2. What is the speed of an object at rest? *Zero m/s*
3. The difference between speed and velocity is that velocity includes *direction*.
4. The SI unit for distance is *meter (m)*
5. The SI unit for speed or velocity is *meter per second (m/s)*.
6. The SI unit for acceleration is *meter per second squared (m/s²)*
7. On a *distance-time* graph, what does the slope tell you? *Speed or velocity*
8. On a *speed-time* graph, what does the slope tell you? *acceleration*

Chapter 12: Forces

9. Describe (what does it say and what is it commonly called)
 - a. Newton's First law of Motion: *Law of Inertia*. Object in motion stays in motion or an object at rest stays at rest UNLESS acted on by a **FORCE**.
 - b. Newton's Second law of Motion: $F=ma$. Force equals the product of an object's mass and *acceleration*. (or Acceleration is equal to the force and inversely proportional to mass)
 - c. Newton's Third law of Motion: *Action/Reaction Law*. For every action there is an equal and *opposite reaction*.
10. Give **an example for each** of Newton's laws
 - a. Newton's First law of Motion: *bolder won't move unless something pushes on it, and the moon won't stop rotating unless a force acts on it.*
 - b. Newton's Second law of Motion *it takes more force to accelerate a school bus than a toy car.*
 - c. Newton's Third law of Motion: *my foot pushed on the ball (action force), the ball pushes back (reaction force) and fly's forward (resulting net force). OR you sitting in the desk is pushing down on the desk and the desk is pushing up on you but they are balanced so no CHANGE in motion.*
11. Define and give an example of each of the following terms.

Definition	Example
a. Friction: <i>force that opposes motion</i>	a. Friction: <i>heat when rubbing hands together.</i>
b. Static Friction: <i>friction that prevents object from moving</i>	b. Static Friction: <i>Pushing against dresser that won't move</i>
c. Sliding Friction: <i>friction that occurs between objects sliding past each other.</i>	c. Sliding Friction: <i>going down a slide, dresser sliding across the floor.</i>
d. Rolling Friction: <i>friction that occurs between object rolling against another object.</i>	d. Rolling Friction: <i>roller skates on pavement.</i>
e. Fluid Friction: <i>friction that occurs in a fluid (Example of Fluid: water, quick sand, air...)</i>	

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Table of Contents Physical Science And 5 Study Guide Answers

1. Understanding the eBook Physical Science And 5 Study Guide Answers
 - The Rise of Digital Reading Physical Science And 5 Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science And 5 Study Guide Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physical Science And 5 Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science And 5 Study Guide Answers
 - Personalized Recommendations
 - Physical Science And 5 Study Guide Answers User Reviews and Ratings

- Physical Science And 5 Study Guide Answers and Bestseller Lists
- 5. Accessing Physical Science And 5 Study Guide Answers Free and Paid eBooks
 - Physical Science And 5 Study Guide Answers Public Domain eBooks
 - Physical Science And 5 Study Guide Answers eBook Subscription Services
 - Physical Science And 5 Study Guide Answers Budget-Friendly Options
- 6. Navigating Physical Science And 5 Study Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science And 5 Study Guide Answers Compatibility with Devices
 - Physical Science And 5 Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science And 5 Study Guide Answers
 - Highlighting and Note-Taking Physical Science And 5 Study Guide Answers
 - Interactive Elements Physical Science And 5 Study Guide Answers
- 8. Staying Engaged with Physical Science And 5 Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science And 5 Study Guide Answers
- 9. Balancing eBooks and Physical Books Physical Science And 5 Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science And 5 Study Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science And 5 Study Guide Answers
 - Setting Reading Goals Physical Science And 5 Study Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science And 5 Study Guide Answers
 - Fact-Checking eBook Content of Physical Science And 5 Study Guide Answers
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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